

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 01 West Levee | Right | 2.73 | 10/20/2016 10/20/2016 | Oleg Yakimov |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 5 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_ST0011_01_s _ 2013_5 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The Sacramento Maintenance Yard has the levee O&M manuals. | | | | | |

No Photos

| | | | | | |
|--|--------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 6 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_ST0011_01_s _ 2013_6 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The Sacramento Maintenance Yard maintains a stockpile of flood response materials. | | | | | |

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 01 West Levee | Right | 2.73 | 10/20/2016 10/20/2016 | Oleg Yakimov |

| | | | | | |
|--|-------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 7 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_ST0011_01_s_2013_7 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The Sacramento Maintenance Yard maintains a written flood response plan and regular flood response training. | | | | | |

No Photos

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.46 | Rating ** | C | Issue No. | 14 |
| LM End | 2.01 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 38.740310° | 38.732345° |
| | | | | -121.660274° | -121.660286° |
| DWR ID | DWR_ST0011_01_s_2016_14 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

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|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 01 West Levee | Right | 2.73 | 10/20/2016 10/20/2016 | Oleg Yakimov |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.53 | Rating ** | M | Issue No. | 2 |
| LM End | 2.69 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.725505° | 38.724385° |
| | | | | -121.662041° | -121.664564° |
| DWR ID | DWR_ST0011_01_s_2016_2 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 2006 - Slow wave wash and general fluvial erosion of the toe area under river cobbles. Erosion is creating a scarp and cobble covered wave-cut bench. 2011 - Site appears better than it looked in 2006, but still eroding. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: YOL_2-6_R] | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 West Levee | Right | 1.52 | 10/20/2016 10/20/2016 | Oleg Yakimov |

| | | | | | |
|--------------------------|--|--------------|----|------------------------|-----|
| LM Start | | Rating ** | | Issue No. | |
| LM End | | Issue Type + | -- | Location * | |
| Category | | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | | | | ° | ° |
| | | | | ° | ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| No issues were reported. | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 03 West Levee | Right | 1.15 | 10/20/2016 10/20/2016 | Oleg Yakimov |

| | | | | | |
|--|------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 2 |
| LM End | 1.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.698595° | 38.677165° |
| | | | | -121.674120° | -121.672764° |
| DWR ID | DWR_ST0011_03_f_2016_2 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Acceptable vegetation on the landside of the levee. | | | | | |

No Photos

*** Location**
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CR : Crown

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
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Sacramento Maintenance Yard West Levee Yolo Bypass

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 04 West Levee | Right | 3.61 | 10/26/2016 10/26/2016 | Oleg Yakimov |

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | C | Issue No. | 14 |
| LM End | 0.07 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 38.574293 ° | 38.573315 ° |
| | | | | -121.638713 ° | -121.638742 ° |
| DWR ID | DWR_ST0011_04_s_2016_14 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| Crown needs to be regraded. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.55 | Rating ** | M | Issue No. | 13 |
| LM End | 0.55 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Repair Gates | | | 38.566322 ° | 38.566322 ° |
| | | | | -121.638893 ° | -121.638893 ° |
| DWR ID | DWR_ST0011_04_f_2016_13 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Unable to open gates north of RR crossing. Steel rod hardly moves. | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 04 West Levee | Right | 3.61 | 10/26/2016 10/26/2016 | Oleg Yakimov |

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.68 | Rating ** | M | Issue No. | 12 |
| LM End | 0.69 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 38.564543 ° | 38.564403 ° |
| | | | | -121.638355 ° | -121.638359 ° |
| DWR ID | DWR_ST0011_04_f_2016_12 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_ST0011_294_12_20161027_00009.jpg



Asphalt paved crown has depression at this site. Fall 2016.

| | | | | | |
|---|--------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.78 | Rating ** | M | Issue No. | 2 |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |
| Category | Structures & Concrete Lined Channels | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flap Gates | | | 38.563163 ° | 38.563163 ° |
| | | | | -121.637994 ° | -121.637994 ° |
| DWR ID | DWR_ST0011_04_s_2015_2 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| There seems to be obstructions that prevents the gate from fully closing. Remove debris from flap gate. | | | | | |

Photo 1 of 3 : FA_2016_ST0011_294_2_20160913_00001.jpg



View of a perspective on the pipe looking upstream. Spring 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.78 | Rating ** | M | Issue No. | 2 (cont) |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : FA_2016_ST0011_294_2_20160913_00002.jpg



View of the flap gate in the ditch on the water side of the levee. There seems to be debris preventing the flap gate from closing. Spring 2015.

| | | | | | |
|--|--|---|--|---|--|
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|--|--|---|--|---|--|

Sacramento Maintenance Yard West Levee Yolo Bypass

| * Location | ** Rating | + Issue Type |
|----------------------|---|-----------------------------------|
| LS : Land Side | A : Acceptable | Ma : Maintenance Deficiency |
| N/A : Not Applicable | N : Not Inspected/Rated | Ob : Design & System Obsolescence |
| WS : Water Side | M : Minimally Acceptable | En : Enforcement |
| CR : Crown | U : Unacceptable | |
| | A/W : Acceptable but Monitor & Maintain | |

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|------------------------|-------|------------|--------------------------|--------------|
| Unit No. 04 West Levee | Right | 3.61 | 10/26/2016 10/26/2016 | Oleg Yakimov |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.57 | Rating ** | C | Issue No. | 20 |
| LM End | 1.57 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.553105° | 38.553105° |
| | | | | -121.632170° | -121.632170° |
| DWR ID | DWR_ST0011_04_s_2016_20 | | | | |
| Comment Code | | | | | |
| CR1 : Monitor and have inspected by geotechnical engineer. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.94 | Rating ** | M | Issue No. | 18 |
| LM End | 3.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.533424° | 38.532532° |
| | | | | -121.631354° | -121.631368° |
| DWR ID | DWR_ST0011_04_f_2016_18 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_ST0011_294_18_20161027_00015.jpg



View of vegetation on WS slope. Fall 2016.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|